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Director and Professor

# Grants Opportunities

**National Transportation Center**

**SMARTER Center**



# History of NTC

- Established by Congress under the Intermodal Surface Transportation Efficiency Act (ISTEA) of 1991
- Authorized in 1998 by the Transportation Equity Act for the 21<sup>st</sup> Century (TEA-21); reauthorized again in 2005 by the Safe, Accountable, Flexible, Efficient Transportation Equity Act - a Legacy for Users (SAFETEA-LU)
- Urban Mobility & Equity Center (UMEC) grant in 2016
- Sustainable Mobility & Accessibility Regional Transportation Equity Research (SMARTER) Center grant in 2023
- MDOT/MSU Graduate School Internship Program for over 30 years, which became a national model and a pipeline to employment
- Summer Transportation Institute since 1998



# National Transportation Center

- Brought about \$40M and Completed 120 research projects
- Technology Transfer
  - ✓ 2 utility patents, one on the way
  - ✓ 8 provisional patents
- Won 3 Awards from the Council of University Transportation Centers
  - ✓ Technology Transfer Leadership Award - 2020
  - ✓ Workforce Development Leadership- 2020
  - ✓ Lifetime Achievement Award - 2021



# Urban Mobility and Equity Center

- Funded under the Fixing America's Surface Transportation (FAST) Act of 2015
- Awarded about \$1.5M annually by the U.S. DOT in 2016 for six years
  - ✓ One of 20 Tier-1 Centers
  - ✓ One of two HBCUs
- A three-university consortium led by Morgan State University
  - ✓ University of Maryland – College Park
  - ✓ Virginia Tech

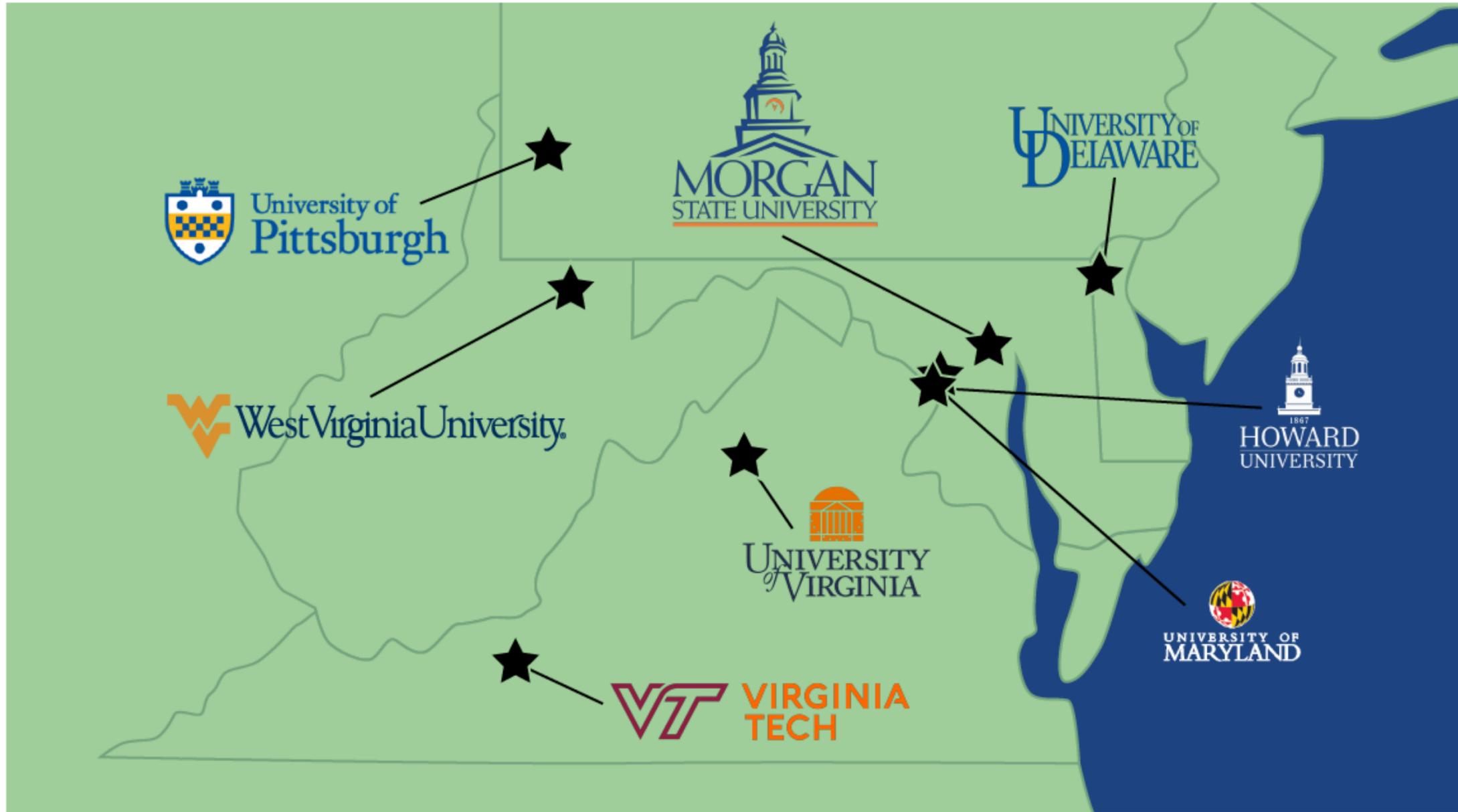


# The Sustainable Mobility and Accessibility Regional Transportation Equity Research (SMARTER) Center

- Funded under the Bipartisan Infrastructure Law (BIL) of 2021
- Awarded about \$3M annually by the U.S. DOT in 2023 for five years
  - ✓ One of 10 Regional Centers
  - ✓ One of the first two HBCUs to become the lead of a Regional Center
- An eight-university consortium led by Morgan State University



# SMARTER Center



# Research with Equity Lens

## Accessibility

Food  
Healthcare  
Jobs

## Mobility

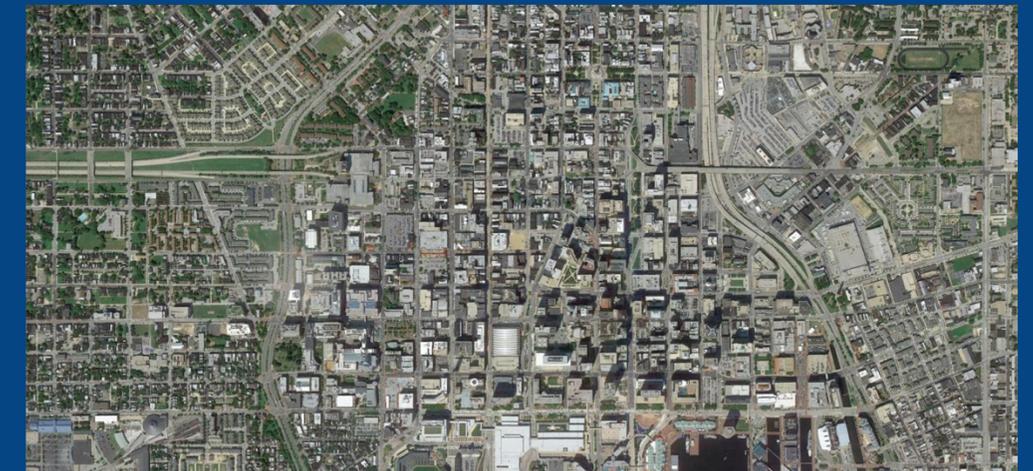
Multimodal/Complete Streets  
Micro-mobility  
Natural disasters, evacuation

## Safety

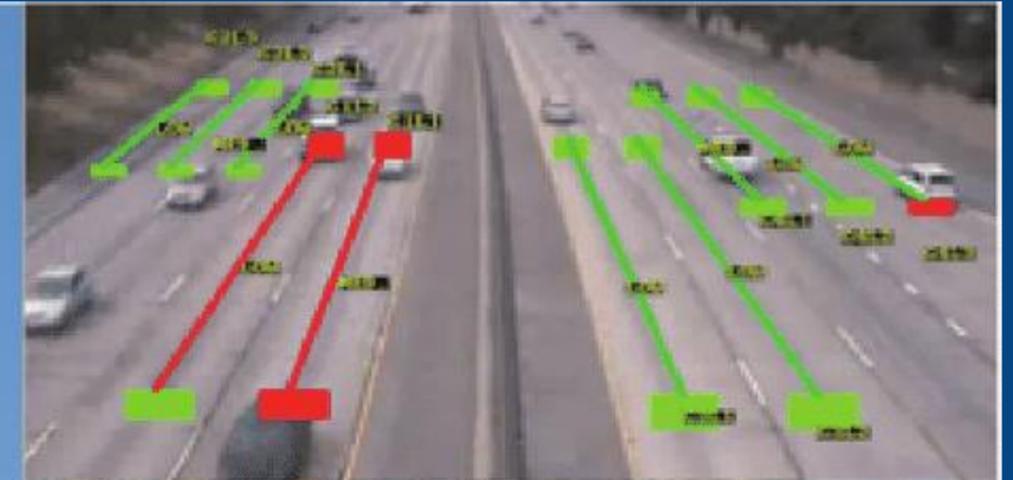
Vulnerable road users

## Advanced Technologies

CAV/EV  
AI/ML



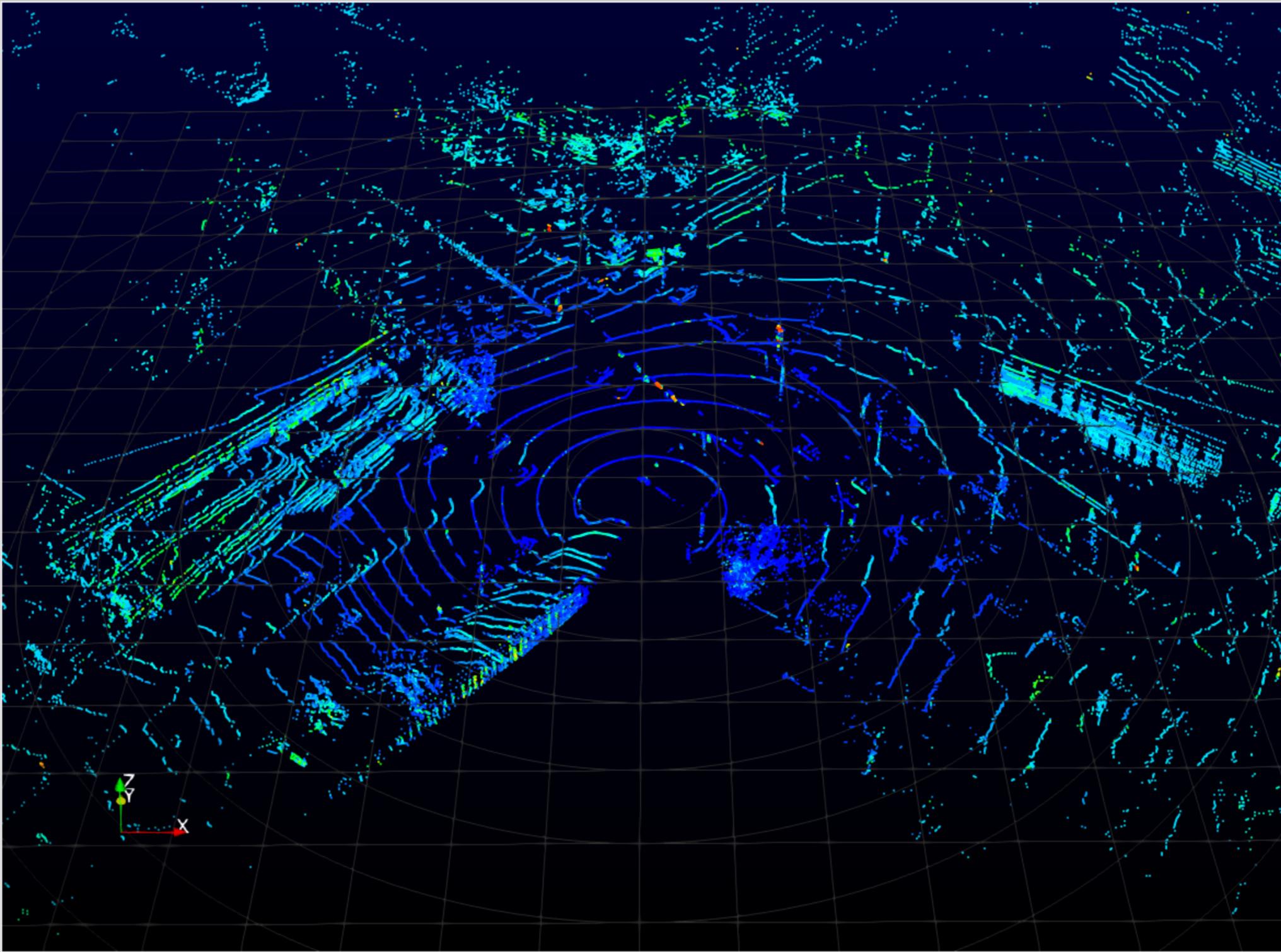
# Mixed Traffic CAV Testbed



intensity

Speed: All frames

Time: 1649969735.29 Frame: 351 of 4616 TF: 0 Skip: 0



SpreadSheet

Showing TrailingFrame Attribute: Point Data Precision: 3 10

Block Number	Point ID	adjustedtime	azimuth	distance_m	intensity	laser_id	timestamp	vertical_
1	0	6525372990	0	10.808	4	0	2925372990	-25.000
1	1	6525372990	0	57.872	25	1	2925372990	-1.000
1	2	6525372992	1	56.068	53	2	2925372992	-1.667
1	3	6525372992	1	16.456	2	3	2925372992	-15.639
1	4	6525372995	2	22.412	4	4	2925372995	-11.310
1	5	6525372995	2	74.020	27	5	2925372995	0.000
1	6	6525372997	3	131.916	30	6	2925372997	-0.667
1	7	6525372997	3	27.468	4	7	2925372997	-8.843
1	8	6525372999	3	34.688	6	8	2925372999	-7.254
1	9	6525372999	3	57.936	13	9	2925372999	0.333
1	10	6525373002	4	93.604	30	10	2925373002	-0.333
1	11	6525373002	4	38.580	5	11	2925373002	-6.148
1	12	6525373004	5	50.392	24	12	2925373004	-5.333
1	13	6525373004	5	79.492	30	13	2925373004	1.333
1	14	6525373006	6	99.740	63	14	2925373006	0.667
1	15	6525373006	6	53.240	10	15	2925373006	-4.000
1	16	6525373009	7	53.852	20	16	2925373009	-4.667
1	17	6525373009	7	84.480	33	17	2925373009	1.667
1	18	6525373011	7	20.368	42	18	2925373011	1.000
1	19	6525373011	7	56.316	48	19	2925373011	-3.667
1	20	6525373013	8	59.980	29	20	2925373013	-3.333

# Research, Education, Workforce Development



# UTC Effect

- Faculty with Transportation related research interest/expertise
  - ✓ Engineering, Planning, Policy, Computer Science, Business
- New programs or concentrations
  - ✓ Morgan has B.S., M.S., Ph.D. in Transportation Systems
  - ✓ Incorporating research in our courses
- Diversify workforce
  - ✓ NSTI and the department
  - ✓ Attract more students to Transportation field
- Increase research capacity and capability



# Applying for Federal Grants

- Grants.gov
  - Get email notifications
- GrantSolutions.gov
- Delphi
- Program Managers/Contact info



# Available Resources

- [DOT Discretionary Grants Dashboard | US Department of Transportation](#)
- [DOT Navigator | US Department of Transportation](#)
- [IJA Notice of Funding Opportunity \(NOFO\) Tracker \(gfoa.org\)](#)
- [Landing Page \(billaunchpad.com\)](#)



# Sample Grants

- [Strengthening Mobility and Revolutionizing Transportation \(SMART\) Grants Program | US Department of Transportation](#)
- [Reconnecting Communities and Neighborhoods Grant Program | US Department of Transportation](#)
- [Federal Funding Programs | US Department of Transportation](#)



# Maryland Grants

- [The Bipartisan Infrastructure Law Will Deliver for Maryland | US Department of Transportation](#)
- <https://www.mdot.maryland.gov/tso/pages/Index.aspx?PageId=156>



# Partnering with the Center/Academia

- Research Proposal Writing
- Analysis, analytics
- Testing, simulation, pilots, evaluation



# Video

[Morgan State University - ITS Video full length - YouTube](#)



# Contact Information

Website: <https://www.morgan.edu/soe/ntc>

 National Transportation Center and the Urban Mobility & Equity Center

 Transportation Research at Morgan State University

 NTCMorgan

 NTCUMEC

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